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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE  
1055-0089 (08-09): 3641

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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
	Application Number	10/553,932			
	Filing Date	10/20/2005			
	First Named Inventor	Joseph W. Twarog, Jr.			
	Art Unit	NYA			
	Examiner Name	NYA			
	Attorney Docket Number	DNI-0024			
Sheet	1	of	4		

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code (if known) <sup>2</sup>			
		US-	1,964,390	06-26-1934	J. Stuart, 2D	
		US-	2,416,639	02-25-1947	David E. Pearsall	
		US-	2,963,971	12-13-1960	C. F. Home	
		US-	3,027,839	04-03-1962	A. J. Grandy et al.	
		US-	3,590,739	07-06-1971	Per-Anders Persson	
		US-	3,730,096	05-01-1973	Josef Prior	
		US-	4,220,087	09-02-1980	Posson	
		US-	4,244,900	01-13-1981	Heider	
		US-	4,288,262	09-08-1981	Flanagan et al.	
		US-	4,290,366	09-22-1981	Janoski	
		US-	4,328,753	05-11-1982	Kristensen et al.	
		US-	4,402,270	09-06-1983	McCaffrey	
		US-	4,493,261	01-15-1985	Simon et al.	
		US-	4,607,573	08-26-1986	Thureson et al.	
		US-	4,660,474	04-28-1987	Dias dos Santos	
		US-	4,699,059	10-13-1987	Kelly et al.	
		US-	4,756,250	07-12-1988	Dias dos Santos	
		US-	4,757,764	07-19-1988	Thureson et al.	
		US-	4,817,673	04-04-1989	Zoghby et al.	
		US-	4,838,165	06-13-1989	Gladden et al.	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁵
		Office³	Number⁴	Kind⁵ (if known)				
		WO	01/08937 A1		02-08-2001	Autoliv Development AB		

Examiner Signature	/James Bergin/	Date Considered	12/20/2009
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Substitute for form 1449A/PTO

*(use as many sheets as necessary)*

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of

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Application Number	10/553,932
Filing Date	10/20/2005
First Named Inventor	Joseph W. Twarog, Jr.
Art Unit	NYA
Examiner Name	NYA
Attorney Docket Number	DNI-0024

Examiner Initials*	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
		US- 4,841,856		06-27-1989	Gisler et al.	
		US- 5,001,981		03-26-1991	Shaw	
		US- 5,009,163		04-23-1991	Robins et al.	
		US- 5,010,821		04-30-1991	Blain	
		US- 5,048,420		09-17-1991	Beck et al.	
		US- 5,101,729		04-07-1992	Noble et al.	
		US- 5,166,470		11-24-1992	Stewart	
		US- 5,208,419		05-04-1993	Greenhorn et al.	
		US- 5,212,341		05-18-1993	Osborne et al.	
		US- 5,243,913		09-14-1993	Brent et al.	
		US- 5,316,600		05-31-1994	Chan et al.	
		US- 5,317,974		06-07-1994	Stewart et al.	
		US- 5,351,618		10-04-1994	Brent et al.	
		US- 5,383,405		01-24-1995	Blain	
		US- 5,431,100		07-11-1995	Snyder	
		US- 5,435,249		07-25-1995	Brent et al.	
		US- 5,473,987		12-12-1995	Beck	
		US- 5,507,891		04-16-1996	Zeigler	
		US- 5,509,355		04-23-1996	Stewart et al.	
		US- 5,518,807		05-21-1996	Chan et al.	

[illegible]

/James Bergin/

Date	
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12/20/2009

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				Application Number	10/553,932
				Filing Date	10/20/2005
				First Named Inventor	Joseph W. Twarog, Jr.
				Art Unit	NYA
				Examiner Name	NYA
Sheet	3	of	4	Attorney Docket Number	DNI-0024

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		Number	Kind Code <sup>2</sup> (if known)			
		US- 5,597,973		01-28-1997	Gladden et al.	
		US- 5,616,883		04-01-1997	Hamilton et al.	
		US- 5,625,162		04-29-1997	Appleby	
		US- 5,629,493		05-13-1997	Andersson et al.	
		US- 5,681,904		10-28-1997	Manzara	
		US- 5,827,994		10-27-1998	Gladden et al.	
		US- 5,837,924		11-17-1998	Austin	
		US- 5,844,322		12-01-1998	Andersson et al.	
		US- 5,945,627		08-31-1999	Arpin et al.	
		US- 6,006,671		12-28-1999	Yunan	
		US- 6,170,398		01-09-2001	Rabotinsky et al.	
		US- 6,347,566		02-19-2002	Rabotinsky et al.	
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		Office <sup>3</sup>	Number <sup>4</sup>	Kind <sup>5</sup> (if known)				

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				Filing Date	10/20/2005
				First Named Inventor	Joseph W. Twarog, Jr.
				Art Unit	NYA
				Examiner Name	NYA
				Attorney Docket Number	DNI-0024
Sheet	4	of	4		

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials <sup>*</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Sartomer Product Bulletin: SR-238, 1,6 Hexanediol Diacrylate, 2027 R. 12/98	
		Anthony P. Manzara, 3M Specialty Chemicals Division, "A New Cure System For Azido Polymers", Approved for public release April 1996, 8 pages.	
		<a href="http://www.chemicaland21.com/arokorhi/specialtychem/perchem/N-BUTYRYL%20CHL...">http://www.chemicaland21.com/arokorhi/specialtychem/perchem/N-BUTYRYL%20CHL...</a> , 4/15/2004, N-BUTYRYL CHLORIDE (BUTANOYL CHLORIDE), "n-BUTYRYL CHLORIDE", 2 pages.	
		<a href="http://search.chemexper.com/_KFPNKUMHFTNBQNKQNKQNPOLQOE_?for=ccd&amp;sea...">http://search.chemexper.com/_KFPNKUMHFTNBQNKQNKQNPOLQOE_?for=ccd&amp;sea...</a> 4/15/2004, Poly(vinyl butyral), 1 page	
		Rob Hunter and Tony Manzara, 3M Performance Materials, "Interaction of Glycidyl Azide Polymer Plasticizer With Other Polymers", 8 pages, facsimile-transmitted April 26, 2002.	
		3M Industrial Products Division, "technical data Glycidyl Azide Polymer Polyol L-12369 (Experimental), issued December, 1991, 2 pages.	
		3M Industrial Products Division, "technical data Glycidyl Azide Polymer Polyol L-12616 (Experimental), issued April, 1992, 2 pages.	

Examiner Signature	/James Bergin/	Date Considered	12/20/2009
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